

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Monforte et al.**  
Serial No.: 09/139,386  
Filed: August 25, 1998  
For: **PRIMERS USEFUL FOR SIZING  
NUCLEIC ACIDS**  
Art Unit: 1656  
Examiner: Tung, J.

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TRANSMITTAL LETTER

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Transmitted herewith, via hand delivery, are an Information Disclosure Statement, Forms PTO-1449 (34 pages) and the cited references for filing in connection with the above-identified application. Because this Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the Continued Prosecution Application, mailed January 4, 2002, a fee should not be due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

- ☒ The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman  
Registration No. 33,779

Dated: February 5, 2002  
Attorney Docket No. 24736-2060  
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

A request under 37 C.F.R. §1.53(d) to file a Continued Prosecution Application of the above-identified application, was mailed January 4, 2002. Since this Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the Continued Prosecution Application, a fee should not be due. If, however, it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (34 pages) and copies of the cited documents are provided herewith.

The documents listed on the Forms PTO-1449 are in the English language with the exception of items FQ, FT, GB, GF, GH, GJ, GL, GN-GT, HJ, IB, IH, and JE. German Patent Nos. DE19617011 (item GB), DE19618032 (item GC), and DE19754978 (item GF) are in the German language, are each supplied with English

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**Monforte, et al.**  
**Supplemental IDS**

language equivalents (items CK, GL, and GJ, respectively) describing the subject matter. German patent application numbers DE19628178 (item GD), DE19731479 (item GE), DE3930312 (item GN), DE4011991 (item GO), DE4431174 (item GQ), and DE4438630 (GR), which are in the German language, are provided with English language Derwent abstracts (items MF, MG, LW, LY, MC, and ME, respectively) describing the subject matter. German Patent No. WO 98/03257 (item JE), which is in the German language, is supplied with a Certified English language translation, (item LE).

Japanese Patent numbers JP2215399 (item GH), JP4178359 (item GP), and JP63230086 (item GT), which are in the Japanese language, are provided with English language Derwent abstracts (items LX, MA, and LT) describing the subject matter. Japanese Patent No. JP6294796 (item GS), which is in the Japanese language, is supplied with a Certified English language translation (item LC) describing the subject matter.

French patent applications EPO269520 (item FQ), EPO360676 (item FR), and EPO360677 (item FS), which are in the French language, are provided with English language Derwent abstracts (items LS, LU, and LV, respectively) describing the subject matter. French patent application number EPO412833 (item FT), which is in the French language, is supplied with a Certified English language translation (item LD) describing the subject matter. French patents WO91/02087 (item HJ), WO95/07361 (item IB), and WO96/05323 (item IH), which are in the French language, are provided with English language Derwent abstracts (items LZ, MB, and MD, respectively) describing the subject matter.

Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following co-pending U.S. and International applications that have one or more common inventors and/or are commonly owned:

<u>U.S.S.N.(App. no.)</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/297,575	05/03/99	2001US
08/947,801	10/08/97	2001B
08/786,988	01/23/97	2001D
09/364,774	07/30/99	2001E

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<u>U.S.S.N.(App. no.)</u>	<u>Filing Dat</u>	<u>D ck t No.</u>
09/371,150	08/09/99	2001F
09/429,683	10/28/99	2001G
09/287,679	04/06/99	2002C
09/287/141	04/06/99	2002D
09/287,682	04/06/99	2002E
09/287,681	04/06/99	2002F
09/431,613	11/02/99	2002G
09/397,766	09/15/99	2002I
09/504,245	02/15/00	2002J
09/724,877	11/28/00	2002K
09/879,341	06/11/01	2002M
08/744,481	11/06/96	2004
09/297,576	05/03/99	2004US
09/179,536	10/26/98	2004B
09/783,881	02/13/01	2004C
08/990,851	12/15/97	2007
08/034,738	03/19/93	2010
08/467,208	06/06/95	2011D
08/922,201	09/02/97	2016
09/146,054	09/02/98	2016B
09/664,977	09/18/00	2016C
10/007,557	11/06/01	2016D
09/074,936	05/07/98	2021
09/309,125	05/10/99	2021A
09/307,006	05/07/99	2021B
09/285,481	04/02/99	2022
09/680,581	10/05/00	2022B
09/266,409	03/10/99	2023
09/678,620	10/02/00	2023B
09/687,483	10/13/00	2033
09/834,700	04/12/01	2035
10/037,356	10/24/01	2046
09/802,640	03/09/01	2048
09/663,968	03/09/01	2049
09/839,629	04/20/01	2050
09/515,277	02/29/00	2054B
09/089,730	06/03/98	2055C
08/988,024	12/10/97	2057
09/515,357	02/29/00	2058B
09/541,210	04/03/00	2059B

<u>Int'l Appln. No.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US01/21308	07/05/01	2035PC
PCT/US01/45123	10/24/01	2046PC
PCT/US01/29290	09/18/01	2049PC

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Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

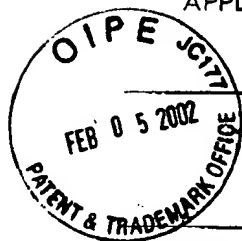
Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By:   
Stephanie Seidman  
Registration No. 33,779

**Dated: February 4, 2002**  
Attorney Docket 24736-2060  
**Address all correspondence to:**  
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FORM PTO-1449 (Modified)

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	4	1	3	9	3	4	6	02/13/79	Rabbani	422	58	11/28/77
	B	4	5	1	5	7	8	1	05/07/85	Torrence <i>et al.</i>	514	44	02/23/83
	C	4	5	8	2	7	8	9	04/15/86	Sheldon III <i>et al.</i>	435	6	12/18/84
	D	4	6	0	4	3	6	3	08/05/86	Newhouse <i>et al.</i>	436	177	10/18/84
	E	4	6	5	6	1	2	7	04/07/87	Mundy	435	6	04/23/84
	F	4	6	8	3	1	9	4	07/28/87	Saiki <i>et al.</i>	435	6	03/28/85
	G	4	6	8	3	1	9	5	07/28/87	Mullis <i>et al.</i>	435	6	02/07/86
	H	4	7	1	1	9	5	5	12/08/87	Ward <i>et al.</i>	536	25.32	05/23/83
	I	4	7	2	5	6	7	7	02/16/88	Köster <i>et al.</i>	536	27	06/18/85
	J	4	7	2	9	9	4	7	03/08/89	Middendorf <i>et al.</i>	435	6	03/29/84
	K	4	8	0	6	5	4	6	02/21/98	Carrico <i>et al.</i>	536	27	09/30/85
	L	4	8	8	2	1	2	7	11/21/89	Rosenthal <i>et al.</i>	422	50	11/12/87
	M	4	9	2	0	2	6	4	04/24/90	Becker	250	282	01/17/89
	N	4	9	9	8	6	1	7	03/12/91	Ladd, Jr. <i>et al.</i>	206	219	09/15/86
	O	5	0	0	3	0	5	9	03/26/91	Brennan	536	27	06/20/88
	P	5	0	5	9	6	5	4	10/22/91	Hou <i>et al.</i>	525	54.1	02/16/89
	Q	5	0	6	2	9	3	5	11/05/91	Schlag <i>et al.</i>	204	157.41	03/21/89
	R	5	0	6	4	7	5	4	11/12/91	Mills	435	6	11/13/87
	S	5	1	1	8	9	3	7	06/02/92	Hillenkamp <i>et al.</i>	250	282	08/21/90
	T	5	1	3	5	8	7	0	08/04/92	Williams <i>et al.</i>	436	173	06/01/90
	U	5	1	4	3	8	5	4	09/01/92	Pirrung <i>et al.</i>	436	518	03/07/90
	V	5	1	4	9	6	2	5	09/22/92	Church <i>et al.</i>	435	6	03/28/90
	W	5	1	7	5	2	0	9	12/29/92	Beattie <i>et al.</i>	525	54.11	01/31/91

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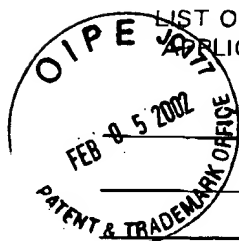
DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: PRIMERS USEFUL FOR SIZING NUCLEIC ACIDS

Dated: February 4, 2002

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24736-2060SERIAL NO.  
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X	5	1	9	8	5	4	0	03/30/93	Köster	536	25.3	06/25/84
Y	5	2	1	0	4	1	2	05/11/93	Lavis <i>et al.</i>	250	288	01/31/91
Z	5	2	2	1	5	1	8	06/22/93	Mills	422	62	08/13/91
AA	5	2	3	7	0	1	6	08/17/93	Ghosh <i>et al.</i>	525	329.4	01/05/89
AB	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
AC	5	2	8	8	6	4	4	02/22/94	Beavis <i>et al.</i>	436	94	11/13/92
AD	5	3	0	0	7	7	4	04/05/94	Buttrill	250	287	04/25/91
AE	5	3	3	8	6	8	8	08/16/94	Deeg <i>et al.</i>	436	180	02/19/93
AF	5	3	5	0	6	7	6	09/27/94	Oberhardt <i>et al.</i>	435	13	05/17/93
AG	5	3	8	4	7	6	0	11/15/94	Chu <i>et al.</i>	435	8	09/22/92
AH	5	3	7	6	7	8	8	12/27/94	Standing <i>et al.</i>	250	287	05/26/93
AI	5	3	8	0	8	3	3	01/10/95	Urdea	536	22.1	12/13/91
AJ	5	4	0	3	7	1	1	04/04/95	Walder <i>et al.</i>	435	6	06/06/93
AK	5	4	2	7	9	2	9	06/27/95	Richards <i>et al.</i>	435	91.2	05/03/93
AL	5	4	3	6	1	4	3	07/25/95	Hyman	435	91.2	12/23/92
AM	5	4	5	9	0	3	9	10/17/95	Modrich <i>et al.</i>	435	6	03/19/94
AN	5	4	8	4	7	0	1	01/16/96	Cocuzza <i>et al.</i>	435	6	01/31/92
AO	5	4	9	2	8	0	6	02/20/96	Drmanac <i>et al.</i>	435	5	04/12/93
AP	5	4	9	8	5	4	5	03/12/96	Vestal	436	47	07/21/94
AQ	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
AR	5	5	0	6	3	4	8	04/09/96	Piales	536	23.1	02/24/94
AS	5	5	0	8	1	8	9	04/16/96	Deugau <i>et al.</i>	435	6	10/28/94
AT	5	5	1	2	2	9	5	04/30/96	Kornberg <i>et al.</i>	424	450	11/10/94
AU	5	5	1	2	4	3	9	04/30/96	Hornes <i>et al.</i>	435	6	07/06/94
AV	5	5	1	4	5	4	8	50/07/96	Krebber <i>et al.</i>	435	6	02/17/94
AW	5	5	2	5	4	6	4	06/11/96	Drmanac <i>et al.</i>	435	6	02/29/94

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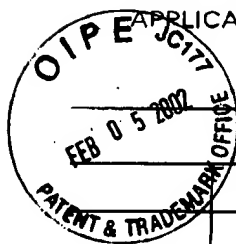
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AX	5	5	2	7	6	7	5	06/18/96	Coull <i>et al.</i>	435	6	08/20/93
AY	5	5	3	8	8	9	7	07/23/96	Yates <i>et al.</i>	436	89	03/14/94
AZ	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
BA	5	5	7	1	6	6	9	11/05/96	Lu <i>et al.</i>	435	6	01/14/93
BB	5	5	7	1	6	7	6	11/05/96	Shuber	435	6	06/07/95
BC	5	5	8	0	4	3	4	12/03/96	Northrup <i>et al.</i>	422	102	06/20/95
BD	5	5	8	0	7	3	2	12/03/96	Grossman <i>et al.</i>	435	6	08/28/94
BE	5	5	8	0	7	3	3	12/03/96	Levis <i>et al.</i>	435	6	09/06/94
BF	5	5	9	9	1	3	6	12/31/96	Northrup <i>et al.</i>	422	102	06/20/95
BG	5	5	9	3	8	2	6	01/14/97	Fung <i>et al.</i>	435	8	04/16/93
BH	5	6	0	1	9	8	2	02/11/97	Sargent <i>et al.</i>	435	6	02/07/95
BI	5	6	0	5	6	6	2	02/25/97	Heller	422	68.1	11/01/93
BJ	5	6	0	6	7	9	8	02/25/97	Köster	435	6	03/17/95
BK	5	6	0	9	9	0	7	03/11/97	Natan	427	2.12	09/20/95
BL	5	6	2	2	8	2	4	04/22/97	Köster <i>et al.</i>	435	6	02/10/95
BM	5	6	2	2	8	2	9	04/22/97	King <i>et al.</i>	435	6	04/19/95
BN	5	6	3	1	1	3	4	05/20/98	Cantor	435	8	06/05/95
BO	5	6	4	1	8	6	2	06/24/97	Rutter <i>et al.</i>	530	334	03/29/95
BP	5	6	4	3	8	0	0	07/01/97	Tarantino <i>et al.</i>	436	618	09/21/95
BQ	5	6	5	0	4	8	9	07/22/97	Lam <i>et al.</i>	530	334	06/19/91
BR	5	6	5	4	1	5	0	08/05/97	King <i>et al.</i>	435	6	06/07/95
BS	5	6	6	3	2	4	2	09/02/92	Ghosh <i>et al.</i>	525	329.4	03/31/95
BT	5	6	7	0	3	2	2	09/23/97	Eggers <i>et al.</i>	435	6	06/01/95
BU	5	6	7	0	3	8	1	09/23/97	Jou <i>et al.</i>	436	518	05/08/95
BV	5	6	7	7	1	9	5	10/14/97	Winkler <i>et al.</i>	436	518	11/20/92
BW	5	6	8	8	6	4	2	11/18/97	Chrisey <i>et al.</i>	435	8	12/01/94

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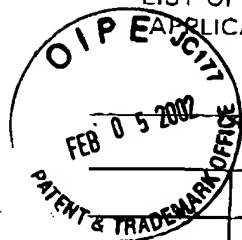
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BX	5	8	9	1	1	4	1	11/25/97	Köster <i>et al.</i>	435	6	06/06/95
BY	5	6	9	5	9	4	0	12/09/97	Drmanac <i>et al.</i>	435	6	06/05/95
BZ	5	7	0	0	6	4	2	12/23/97	Monforte <i>et al.</i>	435	6	05/22/95
CA	5	7	1	0	0	2	8	01/20/98	Eyal <i>et al.</i>	435	91.1	10/04/94
CB	5	7	1	6	8	2	5	02/10/98	Hancock <i>et al.</i>	435	286.5	11/01/95
CC	5	7	6	0	3	9	3	06/02/98	Vestal <i>et al.</i>	250	282	10/17/96
CD	5	7	6	2	8	7	6	06/09/98	Lincoln <i>et al.</i>	422	67	12/22/94
CE	5	7	7	0	3	6	7	06/23/98	Southern <i>et al.</i>	435	6	02/05/96
CF	5	7	7	0	8	6	0	06/23/98	Franzen	250	288	07/10/97
CG	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	289	09/19/96
CH	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93
CI	5	8	0	7	5	2	2	09/15/98	Brown <i>et al.</i>	422	50	06/07/95
CJ	5	8	2	1	0	6	3	10/13/98	Patterson <i>et al.</i>	435	6	04/18/97
CK	5	8	2	8	0	6	3	10/27/98	Köster <i>et al.</i>	250	288	04/02/97
CL	5	8	3	0	6	5	5	11/3/98	Monforte <i>et al.</i>	435	6	04/26/96
CM	5	8	3	4	1	8	9	11/10/98	Stevens <i>et al.</i>	435	6	12/22/95
CN	5	8	4	6	7	1	0	12/08/98	Bejjaj	435	6	08/06/93
CO	5	8	4	6	7	1	7	12/08/98	Brow <i>et al.</i>	435	6	01/24/96
CP	5	8	5	1	7	6	5	12/22/98	Köster	435	6	05/30/95
CQ	5	8	5	3	9	8	9	12/29/98	Jeffreys <i>et al.</i>	435	6	05/06/96
CR	5	8	5	4	4	8	6	12/29/98	Drayfus	250	288	12/27/96
CS	5	8	5	6	0	9	2	01/05/99	Dale <i>et al.</i>	435	6	04/27/95
CT	5	8	6	4	1	3	7	01/26/99	Becker <i>et al.</i>	250	287	10/01/96
CU	5	8	6	9	2	4	0	02/09/99	Patterson	435	6	05/19/95
CV	5	8	6	9	2	4	2	02/09/99	Kamb	435	6	09/18/95
CW	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95

EXAMINER

DATE CONSIDERED

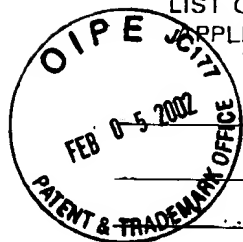
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: PRIMERS USEFUL FOR SIZING NUCLEIC ACIDS

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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24736-2060SERIAL NO.  
09/139,386LIST OF PATENTS AND PUBLICATIONS FOR  
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STATEMENTAPPLICANT  
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CX	5	8	7	6	9	3	4	03/02/99	Duthie <i>et al.</i>	435	6	12/18/96
CY	5	8	8	5	7	7	5	03/23/99	Haff <i>et al.</i>	435	6	10/04/96
CZ	5	8	8	8	8	1	9	03/30/99	Goelet <i>et al.</i>	435	5	03/05/91
DA	5	9	9	4	0	6	3	04/13/99	Hutchens <i>et al.</i>	436	155	01/17/97
DB	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
DC	5	9	0	8	7	5	5	06/01/99	Kumar <i>et al.</i>	435	6	10/15/97
DD	5	9	1	2	1	1	8	06/15/99	Ansorge <i>et al.</i>	435	8	08/03/92
DE	5	9	2	5	5	2	0	07/20/99	Tully <i>et al.</i>	435	6	02/14/97
DF	5	9	2	8	9	0	6	07/27/99	Köster <i>et al.</i>	435	91.2	05/09/96
DG	5	9	4	8	6	5	3	09/07/99	Pati <i>et al.</i>	435	6	08/13/97
DH	5	9	5	2	1	7	4	09/14/99	Nikiforov <i>et al.</i>	435	6	09/15/97
DI	5	9	6	5	3	6	3	10/12/99	Monforte <i>et al.</i>	435	6	12/02/96
DJ	5	9	6	9	3	5	0	10/19/99	Kerley <i>et al.</i>	250	287	03/17/98
DK	5	9	7	6	7	9	8	11/02/99	Parker <i>et al.</i>	435	6	02/28/97
DL	5	9	7	6	8	0	2	11/02/99	Ansorge <i>et al.</i>	435	6	04/26/96
DM	5	9	8	1	1	8	6	11/09/99	Gabe <i>et al.</i>	435	6	07/14/97
DN	5	9	8	5	3	5	6	11/16/99	Schultz <i>et al.</i>	427	8	10/18/94
DO	5	9	9	8	1	4	3	12/07/99	Ellis <i>et al.</i>	435	6	12/05/97
DP	6	0	0	1	5	6	7	12/14/99	Brow <i>et al.</i>	435	6	07/12/96
DQ	6	0	0	4	7	4	4	12/21/99	Goelet <i>et al.</i>	435	5	10/11/91
DR	6	0	1	3	4	3	1	01/11/00	Söderlund <i>et al.</i>	435	5	12/02/93
DS	6	0	1	7	7	0	2	01/25/00	Lee <i>et al.</i>	435	6	01/21/97
DT	6	0	1	8	0	4	1	01/25/00	Drmanac <i>et al.</i>	536	24.3	07/29/97
DU	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
DV	6	0	2	4	9	2	5	02/15/00	Little <i>et al.</i>	422	100	01/23/97
DW	6	0	2	5	1	3	6	02/15/00	Drmanac	435	6	08/28/97

EXAMINER

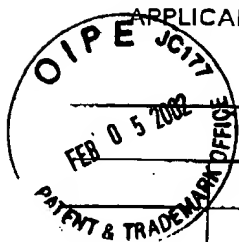
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DX	6	0	2	7	8	9	0	02/22/00	Ness <i>et al.</i>	435	6	07/22/97
DY	6	0	3	0	7	7	8	02/29/00	Acton <i>et al.</i>	435	6	07/10/97
DZ	6	0	4	0	1	9	3	03/21/00	Winkler <i>et al.</i>	436	180	08/04/98
EA	6	0	4	3	0	3	1	03/28/00	Köster <i>et al.</i>	435	6	03/18/96
EB	6	0	4	6	0	0	5	04/04/00	Ju <i>et al.</i>	435	6	09/16/98
EC	6	0	5	1	3	7	8	04/18/00	Monforte <i>et al.</i>	435	6	03/04/97
ED	6	0	5	4	2	7	6	04/25/00	Macevicz	435	6	02/23/98
EE	6	0	7	4	8	2	3	06/13/00	Köster	435	6	11/06/96
EF	6	0	7	4	8	5	3	06/13/00	Patl <i>et al.</i>	435	91.1	08/14/98
EG	6	0	8	7	0	9	5	07/11/00	Rosenthal <i>et al.</i>	435	6	04/22/93
EH	6	0	9	0	5	5	8	07/18/00	Butler <i>et al.</i>	435	6	09/18/98
EI	6	1	0	4	0	2	8	08/15/00	Hunter <i>et al.</i>	250	288	05/29/98
EJ	6	1	1	0	4	2	6	08/29/00	Shalon <i>et al.</i>	422	68.1	12/30/97
EK	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
EL	6	1	1	7	6	3	4	09/12/00	Langmore <i>et al.</i>	435	6	03/06/97
EM	6	1	2	1	0	4	8	09/19/00	Zaffaroni <i>et al.</i>	436	45	10/18/94
EN	6	1	3	2	7	2	4	10/17/00	Blum	424	725	04/29/98
EO	6	1	3	3	4	3	6	10/17/00	Köster <i>et al.</i>	536	24.3	09/19/97
EP	6	1	3	6	2	6	9	10/24/00	Winkler <i>et al.</i>	422	61	04/21/95
EQ	6	1	4	0	0	4	5	10/31/00	Wohlstaedter <i>et al.</i>	435	6	03/06/97
ER	6	1	4	0	0	5	3	10/31/00	Köster	435	6	09/25/98
ES	6	1	4	6	8	5	4	11/14/00	Köster <i>et al.</i>	435	91.1	08/31/95
ET	6	1	5	6	5	0	1	12/05/00	McGall <i>et al.</i>	435	6	04/03/96
EU	6	1	9	4	1	4	4	B1 02/27/01	Köster	435	6	03/18/96
EV	6	1	9	7	4	9	8	B1 03/06/01	Köster	435	5	03/17/95

EXAMINER

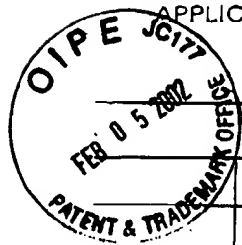
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EW	6	2	0	0	8	1	2	03/13/01	Pati <i>et al.</i>	435	463	04/08/99
EX	6	2	0	7	3	7	0	B1 03/27/01	Little <i>et al.</i>	435	6	09/02/97
EY	6	2	2	1	6	0	1	B1 04/24/01	Köster <i>et al.</i>	435	6	11/02/99
EZ	6	2	2	1	6	0	5	B1 04/24/01	Köster	435	6	02/15/00
FA	6	2	2	5	0	6	1	05/01/01	Becker <i>et al.</i>	435	6	03/10/99
FB	6	2	2	5	4	5	0	05/01/01	Köster	536	22.1	06/07/95
FC	6	2	3	5	4	7	8	B1 05/22/01	Köster	435	6	04/06/99
FD	6	2	3	8	8	7	1	B1 05/29/01	Köster	435	6	05/08/00
FE	6	2	5	8	5	3	8	B1 07/10/01	Köster <i>et al.</i>	435	8	04/06/99
FF	6	2	6	5	7	1	6	B1 07/24/01	Hunter <i>et al.</i>	250	288	02/29/00
FG	6	2	6	8	1	3	1	B1 07/31/01	Kang <i>et al.</i>	435	6	12/15/97
FH	6	2	7	7	5	7	3	B1 08/21/01	Köster	435	6	04/06/99
FI	6	3	0	0	0	7	6	B1 10/09/01	Köster	435	6	01/31/00
FJ	6	3	0	3	3	0	9	B1 10/16/01	Jurinke <i>et al.</i>	435	6	06/21/99
FK	6	3	2	2	9	7	0	B1 11/27/01	Little <i>et al.</i>	435	6	09/02/98

\* English language Derwent Abstracts are provided.

+ English language equivalents are provided.

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
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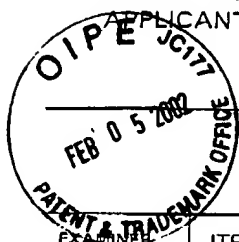
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EXAMINER INITIAL	ITEM	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB- CLASS	Translation	
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	GB	1	9	8	1	7	0	11	27/Apr/96	DE				X+
	GC	1	9	6	1	8	0	32	13/Nov/97	DE				X+
	GD	1	9	6	2	8	1	78	12/Jul/98	DE				X*
	GE	1	9	7	3	1	4	79	06/Aug/98	DE				X*
	GF	1	9	7	5	4	9	78	11/Dec/97	DE				X+
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	GH	2	2	1	5	3	9	9	28/Aug/90	JP				X*
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	GJ	2	3	3	2	2	7	3	16/Jun/99	GB				
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EXAMINER

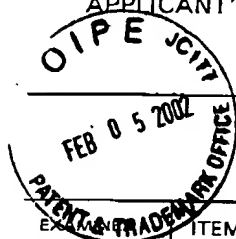
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	GP	4	1	7	8	3	5	8	25/Jun/92	JP				X*
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	GR	4	4	3	8	6	3	0	02/May/96	DE A1				X*
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	GT	8	3	2	3	0	0	88	26/Sep/88	JP A				X*
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	HB	8	9	0	8	2	8	2	05/Oct/89	PCT				
	HC	8	9	1	2	6	2	4	28/Dec/89	PCT				
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	HI	9	0	1	5	8	8	3	27/Dec/90	PCT				
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	HK	9	1	0	6	6	7	8	16/May/91	PCT				

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## FOREIGN PATENT DOCUMENTS

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HN	9	1	1	5	6	0	0		17/Oct/91	PCT	-	-		
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HQ	9	2	1	5	7	1	2		17/Sep/92	PCT				
HR	9	3	0	6	9	2	5		15/Apr/93	PCT				
HS	9	3	0	9	6	6	8		27/May/93	PCT				
HT	9	3	2	0	2	3	6		14/Oct/93	PCT	-	-		
HU	9	3	2	3	5	6	3		25/Oct/93	PCT A1				
HV	9	3	2	4	6	3	4		09/Dec/93	PCT				
HW	9	4	0	0	5	6	2		06/Jan/94	PCT				
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IC	9	5	1	3	3	6	1		18/May/95	PCT				
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IF	9	5	2	5	7	3	7		28/Sep/95	PCT				
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EXAMINER

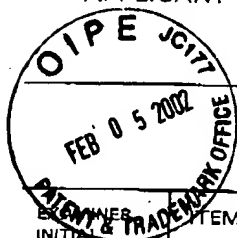
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	IO	9	6	2	9	4	3	1	26/Sep/96	PCT				
	IP	9	6	3	0	5	4	5	03/Oct/96	PCT				
	IQ	9	6	3	2	5	0	4	17/Oct/96	PCT				
	IR	9	6	3	6	7	3	1	21/Nov/96	PCT	--	--		
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	IT	9	6	3	6	9	8	6	21/Nov/96	PCT (A1)	--	--		
	IU	9	6	3	6	9	8	7	21/Nov/96	PCT				
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	IW	9	6	3	9	4	3	7	12/Dec/96	PCT				
	IX	9	7	0	8	3	0	6	06/Mar/97	PCT				
	IY	9	7	1	9	1	1	0	29/May/97	PCT				
	IZ	9	7	3	3	0	0	0	12/Sep/97	PCT	--	--		
	JA	9	7	3	7	0	4	1	09/Oct/97	PCT				
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	JH	9	8	1	2	7	3	4	26/Mar/98	PCT				
	JI	9	8	1	4	9	8	2	09/Apr/98	PCT				
	JJ	9	8	1	9	5	7	8	18/Sep/98	PCT				

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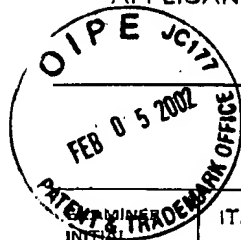
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## FOREIGN PATENT DOCUMENTS

ITEM	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
JK	9	8	2	0	0	1	9	14/May/98	PCT					
JL	9	8	2	0	0	2	0	14/May/98	PCT					
JM	9	8	2	0	1	6	6	14/May/98	PCT					
JN	9	8	2	3	2	8	4	04/Jun/98	PCT					
JO	9	8	2	4	9	3	5	11/Jun/98	PCT					
JP	9	8	2	6	0	9	5	18/Jun/98	PCT					
JQ	9	8	3	0	8	8	3	18/Jul/98	PCT					
JR	9	8	3	3	0	5	2	30/Jul/98	PCT					
JS	9	8	3	3	8	0	6	06/Aug/98	PCT					
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KB	9	9	3	1	2	7	8	24/Jun/99	PCT					
KC	9	9	5	7	3	1	8	11/Nov/99	PCT					

\* An English Derwent Abstract is provided.

+ An English Equivalent Patent is provided.

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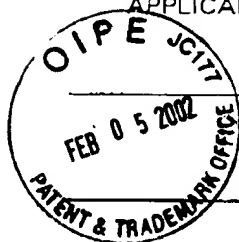
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KF	Ali, S. and Wallace, R. B., "Intrinsic polymorphism of variable number tandem repeat loci in the human genome", <i>Nucl. Acids Res.</i> , <u>16</u> :8487-8496 (1988).
KG	Andersen, <i>et al.</i> , "Electrospray ionization and matrix assisted laser desorption/ionization mass spectrometry: Powerful analytical tools in recombinant protein chemistry", <i>Nature Biotech.</i> , <u>14</u> :449-457 (1996).
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KO	Beck <i>et al.</i> , "Chemiluminescent detection of DNA: application for DNA sequencing and hybridization", <i>Nucl. Acids Res.</i> , <u>17</u> (13):5115-5123 (1989).
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KQ	Braun, A. <i>et al.</i> , "Molecular analysis of the gene for the human vitamin-D-binding protein (group-specific component): allelic differences of the common genetic GC types", <i>Hum. Genet.</i> , <u>89</u> :401-406 (1992).

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KR	Braun <i>et al.</i> , "Improved Analysis of Microsatellites Using Mass Spectrometry", <i>Genomics</i> , <u>46</u> :18-23 (1997).
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KT	Brennan <i>et al.</i> , "New Methods To Sequence DNA By Mass Spectrometry", <i>SPIE New Technol. Cytom. Mol. Biol.</i> , <u>1206</u> :60-67 (1990).
KU	Broude <i>et al.</i> , "Enhanced DNA sequencing by hybridization (streptavidin/biotin/stacking interaction/T4 DNA ligase/DNA polymerase)", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :3072-3076 (1994).
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KW	Busch <i>et al.</i> , "Mass spectrometry of large, fragile, and involatile molecules", <i>Science</i> , <u>218</u> :247-254 (1982).
KX	Cantor <i>et al.</i> , "Instrumentation in molecular biomedical diagnostics: an overview", <i>Genet. Anal.</i> , <u>14</u> :31-36 (1997).
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KZ	Cantor C.R., "How will the Human Genome Project improve our quality of life?", <i>Nature Biotechnol.</i> , <u>16</u> :212-213 (1998).
LA	Carrero-Valenzuela <i>et al.</i> , "Human cytochrome c oxidase subunit VIb: characterization and mapping of a multigene family", <i>Gene</i> , <u>102</u> :229-236 (1991).
LB	Certified English translation of: Elov <i>et al.</i> , "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaya Khimia</i> , <u>17</u> (6):789-94.
LC	Certified English translation of Japanese patent 6-294796, "Nucleic acid analysis method."
LD	Certified English translation of European patent 0412883A1, "Fast screening and/or identification of a single base on a nucleic acid sequence, including applications."
LE	Certified English translation of PCT Patent Application WO 98/03257, "Solid supports for analytical measurement methods, their production and their use."

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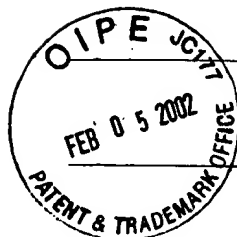
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LH	Chen <i>et al.</i> , "Laser mass spectrometry for DNA fingerprinting for forensic applications", <i>Annual Meeting of the Society of Photo Optical Instrumentation Engineers</i> , July 24-29, 1994.
LI	Church <i>et al.</i> , "Multiplex DNA Sequencing", <i>Science</i> , <u>240</u> :185-188 (1988).
LJ	Cohen <i>et al.</i> , "Emerging Technologies for Sequencing Antisense Oligonucleotides: Capillary Electrophoresis and Mass Spectrometry," <i>Advanced Chromatography</i> , <u>36</u> :127-162 (1996).
LK	Collins <i>et al.</i> , "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation", <i>Genome Res.</i> , <u>8</u> :1229-1231 (1998).
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LM	Cotton, R.G.H., "Current methods of mutation detection", <i>Mutation Res.</i> , <u>285</u> :125-144 (1993).
LN	Cotton <i>et al.</i> , "Reactivity of cytosine and thymine in single-base-pair mismatches with hydroxylamine and osmium tetroxide and its application to the study of mutations", <i>Proc. Natl. Acad. Sci. USA</i> , <u>85</u> :4397-4401 (1988).
LO	Covey <i>et al.</i> , "The Determination of Protein, Oligonucleotide and Peptide Molecular Weights by Ion-spray Mass Spectrometry", <i>Rapid Communications in Mass Spectrometry</i> , <u>2</u> (11):249-256 (1988).
LP	Crain, P.F., "Mass spectrometric techniques in nucleic acid research", <i>Mass Spectr. Rev.</i> , <u>9</u> :505-554 (1990).
LQ	Cronin <i>et al.</i> , "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays", <i>Hum. Mutat.</i> , <u>7</u> :244-255 (1996).
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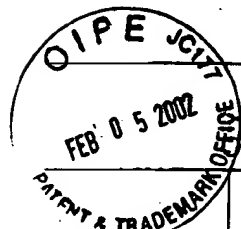
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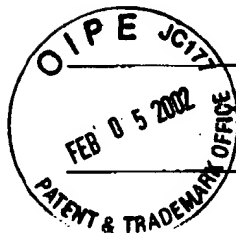
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MJ	Donis-Keller <i>et al.</i> , "Phy M: an RNase activity specific for U and A residues useful in RNA sequence analysis", <i>Nucl. Acids Res.</i> , <u>8</u> (14):3133-3142 (1977).
MK	Drmanac <i>et al.</i> , "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method", <i>Genomics</i> , <u>4</u> :114-128 (1989).

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MV	Fu <i>et al.</i> , "A DNA Sequencing Strategy Which Requires Only Five Bases Of Known Terminal Sequence For Priming", abstract: <u>Group Mapping and Sequencing</u> , Cold Spring harbor Laboratory, pp. 1 (1995).
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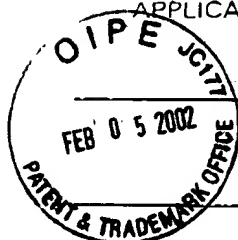
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MX	Fu <i>et al.</i> , "Efficient preparation of short DNA sequence ladders potentially suitable for MALDI-TOF DNA sequencing", <i>Genetic Analysis: Biomolecular Engineering</i> , <u>12</u> :137-142 (1996).
MY	Fu <i>et al.</i> , "Sequencing double-stranded DNA by strand displacement", <i>Nucl. Acids Res.</i> , <u>25</u> (3):677-679 (1997).
MZ	Fu <i>et al.</i> , "Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry", <i>Nature Biotechnol.</i> , <u>16</u> :381-384 (1998).
NA	Ganem <i>et al.</i> , "Detection of Oligonucleotide Duplex Forms By Ion-Spray Mass Spectrometry", <i>Tetrahedron Letters</i> , <u>34</u> (9):1445-1448 (1993).
NB	Gasparini <i>et al.</i> , "Detection of a neurofibromatosis type I (NF1) homologous sequence by PCR: implications for the diagnosis and screening of genetic diseases", <i>Mol. Cell Probes</i> , <u>7</u> :415-418 (1993).
NC	Gasparini <i>et al.</i> , "Restriction site generating-polymerase chain reaction (RG-PCR) for the probeless detection of hidden genetic variation: application to the study of some common cystic fibrosis mutations", <i>Mol. Cell. Probes</i> , <u>6</u> :1-7 (1992).
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NE	George <i>et al.</i> "Current Methods in Sequence Comparison and Analysis," Chapter 12 of: <i>Macromolecule Sequencing and Synthesis, Selected Methods and Applications</i> Schlesinger (Ed.) 127-149 (1988).
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NG	Gibbs <i>et al.</i> , "Detection of single DNA base differences by competitive oligonucleotide priming", <i>Nucl. Acids Res.</i> , <u>17</u> (7):2437-2448 (1989).
NH	Graber <i>et al.</i> , "Differential sequencing with mass spectrometry", <i>Genet. Anal.</i> , <u>14</u> :215-219 (1999).
NI	Graber <i>et al.</i> , "Advances in DNA diagnostics", <i>Curr. Opin. Biotechnol.</i> , <u>9</u> :14-18 (1998).
NJ	Griffin, H.G. and Griffin, A.M., "DNA Sequencing. Recent Innovations and Future Trends", <i>Appl. Biochem. Biotechnol.</i> , <u>38</u> :147-159 (1993).

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NK	Gross <i>et al.</i> , "Investigations of the Metastable Decay of DNA Under Ultraviolet Matrix-Assisted Laser Desorption/Ionization Conditions with Post-Source-Decay Analysis and Hydrogen/Deuterium Exchange", <i>J. Amer. Soc. for Mass Spectrom.</i> , <u>9</u> :866-878 (1998).
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NO	Haglund <i>et al.</i> , "Matrix-Assisted Laser-Desorption Mass Spectrometry Of DNA Using An Infrared Free-Electron Laser", <i>SPIE</i> , <u>1854</u> :117-128 (1993).
NP	Hahner <i>et al.</i> , "Sequencing of nucleic acids by MALDI-MS", <i>Proceedings ASMS Conference on Mass Spectrometry and Allied Topics</i> , Portland, Oregon, (44th), pp. 983 (1996).
NQ	Hainaut <i>et al.</i> , "Database of p53 gene somatic mutations in human tumors and cell lines: updated compilation and future prospects", <i>Nucl. Acids Res.</i> , <u>25</u> (1):151-157 (1997).
NR	<u>Handbook Of Experimental Immunology In Four Volumes</u> , Book: Vol. 1, "Immunochemistry", Weir, D.M., (and co-Eds.), Fourth Edition, Blackwell Scientific Publications, Osney Mead, Oxford, (1986).
NS	Hasan <i>et al.</i> , "Base-boronated dinucleotides: synthesis and effect of N7-cyanoborane substitution on the base protons", <i>Nucl. Acids Res.</i> , <u>24</u> (11):2150-2157 (1996).
NT	Hayashi, K., "PCR-SSCP: A Method for Detection of Mutations", <i>Genet. Anal. Tech. Appl. (GATA)</i> , <u>9</u> (3):73-79 (1992).
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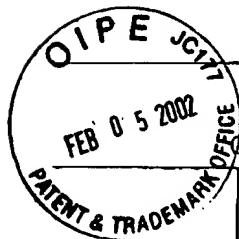
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NW	Higuchi <i>et al.</i> , "Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions", <i>BioTech.</i> , <u>11</u> :1026-1030 (1993).
NX	Higuchi <i>et al.</i> , "A general method of <i>in vitro</i> preparation and mutagenesis of DNA fragments: Study of protein and DNA interactions", <i>Nucl. Acids Res.</i> , <u>16</u> :7351-7367 (1988).
NY	Hillenkamp, F. and Ehring, H., "Laser Desorption Mass Spectrometry Part 1: Basic Mechanisms And Techniques", <i>Mass Spectrometry in the Biological Sciences: A tutorial</i> , pp. 165-179 (1992).
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OA	Hu <i>et al.</i> , "Primer specific and mispair extension analysis (PSMEA) as a simple approach to fast genotyping", <i>Nucl. Acids Res.</i> , <u>26(21)</u> :5013-5015 (1998).
OB	Hyman, E.D., "A New Method of Sequencing DNA", <i>Anal. Biochem.</i> , <u>174</u> :423-436 (1988).
OC	<u>Immobilised cells and enzymes</u> , a practical approach, Woodward, J. (Ed.), IRL Press Limited, Oxford, Washington, DC, 1985.
OD	<u>Immunochemical Methods in Cell and Molecular Biology</u> , Mayer, R.J. and Walker, J.H. (Eds.), Academic Press, London, 1987).
OE	Innis <i>et al.</i> , "DNA sequencing with <i>Thermus aquaticus</i> DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA", <i>Proc. Natl. Acad. Sci. USA</i> , <u>85</u> :9436-9440 (1988).
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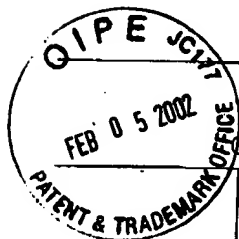
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OJ	Ji <i>et al.</i> , "Two-dimensional electrophoretic analysis of proteins expressed by normal and cancerous human crypts: Application of mass spectrometry to peptide-mass fingerprinting", <i>Electrophoresis</i> , <u>15</u> :391-405 (1994).
OK	Juhasz <i>et al.</i> , "Applications of Delayed Extraction Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry to Oligonucleotide Analysis", <i>Anal. Chem.</i> , <u>68</u> (6):941-946 (1996).
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PA	Köster <i>et al.</i> , "Some improvements in the synthesis of DNA of biological interest", <i>Nucl. Acids Res.</i> , <u>7</u> :39-59 (1980).
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PC	Kozal <i>et al.</i> , "Extensive polymorphisms observed in HIV-1 clade B protease gene using high-density oligonucleotide arrays", <i>Nature</i> , <u>2(7)</u> :753-759 (1996).
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PJ	Lagerström <i>et al.</i> , "Capture PCR: Efficient amplification of DNA fragments adjacent to a known sequence in human YAC DNA," <i>PCR Methods and Applications</i> <u>1</u> :111-119 (1991).
PK	Landegren <i>et al.</i> , "A Ligase-Mediated Gene Detection Technique", <i>Science</i> , <u>241</u> :1077-1080 (1988).
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PM	Lecchi, P. and Pannell, L.K., "The Detection of Intact Double-Stranded DNA by MALDI", <i>J. Am. Soc. Mass Spectrom.</i> , <u>6</u> :972 (1995).
PN	Leonard <i>et al.</i> , "High-resolution structure of mutagenic lesion in DNA", <i>Proc. Nat. Acad. Sci. Biochem.</i> , <u>87</u> :9573-9576 (1990).
PO	Li <i>et al.</i> , "Analysis of Single Mammalian Cell Lysates by Mass Spectrometry", <i>J. Am. Chem. Soc.</i> , <u>118</u> :11662-11663 (1996).
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PS	Little <i>et al.</i> , "Identification of Apolipoprotein E Polymorphisms Using Temperature Cycled Primer Oligo Base Extension and Mass Spectrometry", <i>Short Communication, Eur. J. Clin. Chem. Clin. Biochem.</i> , <u>35</u> (7):545-548 (1997).
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QE	Matteucci, M.D. and Caruthers, M.H., "Synthesis of Deoxypolynucleotides on a Polymer Support", <i>J. Amer. Chem. Soc.</i> , <u>103</u> :3185-3191 (1981).
QF	Maxam, A.M. and Gilbert, W., "A new method for sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> , <u>74</u> (2):560-564 (1977).
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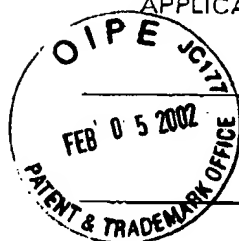
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QI	<i>Methods of Enzymol.</i> , Volume 193 Mass Spectrometry (McCloskey, editor), p. 425, Academic Press, New York, (1990).
QJ	Miyazaki <i>et al.</i> , "The First Japanese Case of Hb Santa Ana, an Unstable Abnormal Hemoglobin, Identified Rapidly by Electrospray Ionization Mass Spectrometry", <i>Internal Medicine</i> , <u>36(3)</u> :365-370 (1997).
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QM	Monforte, J.A. and Becker, C.H., "High-throughput DNA analysis by time-of-flight mass spectrometry," <i>Nature Medicine</i> , <u>3(3)</u> :36-42 (1997).
QN	Mosca <i>et al.</i> , "Mass spectrometry and DNA analysis", <i>Hemoglobin</i> , <u>17</u> :261-268 (1993).
QO	Mullis, K.B. and Faloona, F.A., "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction", <i>Meth. Enzymol.</i> , <u>155</u> :335-350 (1987).
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QY	Nelson <i>et al.</i> , "Time-of-Flight Mass Spectrometry of Nucleic Acids by Laser Ablation and Ionization from a Frozen Aqueous Matrix", <i>Rapid Communications in Mass Spectrometry</i> , <u>4</u> :348-351 (1990).
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RD	Nielsen, <i>et al.</i> , "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> , <u>254</u> :1497 (1991).
RE	Nikiforov, T.T. and Rogers, Y., "The Use of 96-Well Polystyrene Plates for DNA Hybridization-Based Assays: An Evaluation of Different Approaches to Oligonucleotide Immobilization", <i>Anal. Biochem.</i> , <u>227</u> :201-209 (1995).
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RI	Nyrén <i>et al.</i> , "Solid Phase DNA Minisequencing by an Enzymatic Luminometric Inorganic Pyrophosphate Detection Assay", <i>Anal. Biochem.</i> , <u>208</u> :171-175 (1993).
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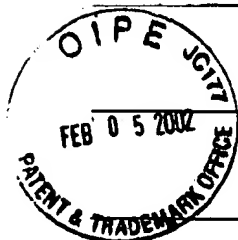
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RZ	Prosser, J., "Detecting single-base mutations", <i>TIBTECH</i> , <u>11</u> :238-246 (1993).
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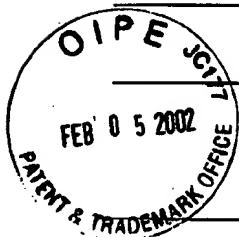
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SQ	Sequenom Advances The Industrial Genomics Revolution With The Launch Of Its DNA MassArray™ Automated Process Line", Press Release: Sept. 28, 1998, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .
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TH	Tang <i>et al.</i> , "Detection of 500-Nucleotide DNA by Laser Desorption Mass Spectrometry", <i>Rapid Commun. Mass Spectrom.</i> , 8:727-730 (1994).
TI	Tang <i>et al.</i> , "Matrix-Assisted Laser Desorption/Ionization of Restriction Enzyme-Digested DNA", <i>Rapid Commun. Mass Spectrom.</i> , 8:183-186 (1994).
TJ	Tang <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes", <i>Nucl. Acids Res.</i> , 23(16):3126-3131 (1995).
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UF	Wu <i>et al.</i> , Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption, <i>Anal. Chem.</i> , <u>66</u> (10):1637-1645 (1994).
UG	Wu <i>et al.</i> , "The ligation amplification reaction (LAR) — amplification of specific DNA sequences using sequential rounds of template-dependent ligation," <i>Genomics</i> , <u>4</u> :560-569 (1989).
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